Cariad Eccleston

github.com/cariad • linkedin.com/in/cariad • cariad@cariad.earth • cariad.earth

DevOps engineer with experience deploying AWS infrastructure-as-code and full stack Python, C#, Node.js and React.js. Commercial experience in financial and medical startups and corporations.

Employment

Freyda
Contract DevOps Engineer, March 2020 – May 2024

I worked directly with the CTO to plan and deploy SaaS platform architecture in AWS. I designed and developed infrastructure-as-code with CloudFormation, Python and Bash.

I led the design and development of OAuth 2.0 / Single Sign-On. I was responsible for planning, developing and testing changes throughout the entire stack, and wrote customer-facing documentation to guide them through Identity Provider configuration. This release helped to market the platform to larger businesses.

I was trusted to work with third-party security auditors and penetration-testers, and I took responsibility for reviewing their findings and leading the development of their suggestions which greatly strengthened our security.

During my daily responsibility to develop Python backend services, deployed as Docker images, I also took responsibility for performing security reviews during peer-review. I identified problems such as security fix regressions and user privilege escalation before deployment, which certainly protected customer data.

NHS Digital
Contract Software Engineer, February - March 2020

I joined NHS Digital for a short contract to migrate a C# SOAP service to .NET Core.

My key responsibilities were accuracy and reliability, since clinicians use the service 24/7/365 to provide life-saving care. I took personal responsibility for identifying edge-cases and adding additional tests to ensure an exceptionally high degree of accuracy.

I completed the migration on-time and my approach to testing was spotlighted by the project's leadership.

Thomson Reuters Tax & Accounting
Software Team Lead, May 2005 – July 2019

As a Senior Software Engineer, I contributed to the development of C#, Node.js and Golang webservices.

As a Software Team Lead, my responsibilities grew to include AWS infrastructure-as-code with Node.js, Python, Bash, PowerShell and Terraform, and leading a global DevOps team to develop best-practices and tooling for teams across the organisation. I successfully supported several projects into production.

Education

IBM AI Developer Professional Certificate
Taught by IBM Skills Network Team • 2024 • verify at coursera.org/verify/professional-cert/5KIVIZMH3B4K

- Explored Hugging Face and a range of models.
- Gained experience using Pandas and NumPy for data science.
- Developed conversational and generative AI APIs with Python and Flask.

Meta Frontend Developer Professional Certificate
Taught by Meta • 2024 • verify at coursera.org/verify/professional-cert/3T6L6ZTNJJCK

- Developed interactive web applications with React.js and Node.js.
- Wrote unit tests for React.js components with Jest.
- Gained experience with Figma, and used it to build user journeys, wireframes and interactive prototypes.

BSc (Honours) Computer Science
The University of Salford • 2004

Open Source

I maintain and contribute to many open-source projects on GitHub at github.com/cariad.

In 2021, I earned a Mars 2020 Contributor badge from GitHub and JPL for my contributions to boto/boto3, which was used during NASA's Ingenuity helicopter mission on Mars.

Conferences

PRISM Exeter
Online, July 2020

I hosted a video session to demonstrate encryption and how Tor's onion routing can help to protect identities.

TechExeter Conference
Exeter, 2019

I hosted a talk about managing KMS customer keys in Amazon Web Services, some best practices for their IAM policies, and how to use those keys with Secrets Manager to manage credentials for RDS databases.

AWS User Groups
London Docklands & Nottingham, 2016-2019

I was invited by colleagues at Thomson Reuters across the UK to talk at their local AWS User Groups about our challenges and strategies while migrating our SaaS platform from on-premises hardware into AWS.